



METHOD FOR INTERGRATING DRAWINGS AND SUPPORTING
DOCUMENTS USING GRAPHIC OBJECT INTERFACE

TECHNICAL FIELD:

The present invention relates to the field Computer Programs and the use of multi-spatial point to point links known as a Graphic Object Interface [GOI] within a computer program platform which manages drawings, schematics or plans, and supporting documents in a relational or nonrelational manner for total computer based management of any production project.

BACKGROUND OF THE INVENTION:

Several computer data base programs have appeared in recent years which allow for horizontal or linear management of data or graphics. However, none of the present computer programs allow for multi-level global access of information from one menu, blue print, graphic, or data base etc. to another without the benefit of returning to or going through a main menu.

The present invention allows for access to any area of information in the platform from the computer screen by way of a Graphic Object Interface.

The entire disclosures of the aforementioned patents are incorporated by reference herein as computer program platforms..

1. **Adobe Acrobat-** No claims are made as to the use of Adobe Platform patents as the platform and related patents are referenced the

1 present invention and used by the inventor under a lawful product
2 license.

3 This is currently the most notable of all data and graphic management programs.
4 Currently the Adobe Acrobat platform is the most suitable computer program for running
5 the present invention. However, unlike the present invention, Adobe Acrobat only
6 allows a horizontal or vertical access to other levels or menus of information and often
7 requires the user to go through a main menu listing commonly shown at the left side of
8 the screen to access the information.

9 **2. U.S. Pat. No. 4,861,041...** Lets list the patents on the disclosure we identified
10 through the search as being in the area of technology but not close.

11 It is a feature of this invention that the computer user can access
12 information contained anywhere in the management program without
13 having to exit into, or go through, another area within the program first.

14 **BRIEF DESCRIPTION OF THE DRAWINGS:**

15 Preferred embodiments of the invention are described below with
16 reference to the following accompanying drawings.

17 **Fig. 1-** Represents a generic flow chart depicting how job plan
18 sheets, specifications. Spreadsheet data, and plans are inter-connected
19 through linked **GOI** modules.

20 **Fig. 2-** Represents a generic flow chart of plans and specifications
21 related **GOI** module and the related inter-linked data of the **GOI** module.

22 **Fig. 3-** Represents a generic view of a startup screen when
23 program is loaded and the options available
24

1 **Fig. 4-** Represents a generic view of a typical **GOI** screen menu
2 with data links and highlighted bookmarks to data.

3 **Fig. 5-** Represents a generic view of an equipment schedule
4 representation for components to be installed as accessed from **GOI** link (A) in Fig. 4.

5 **Fig. 6-** Represents a view of location drawings (plans and section
6 representations) for items to be installed as accessed from **GOI** link (B) shown in Fig. 4.

7 **Fig. 7-** Represents a view of specifications of that component as
8 accessed from **GOI** link (C) shown in Fig. 4.

9 **Fig. 8-** is a view of a catalog representation of the actual items to be
10 installed and the specific location as accessed from **GOI** link (D) shown in Fig. 4.

11 **Fig. 9-** is a view of a Maintenance & Operation Manual. Listing all of the
12 parts and the basic trouble-shooting guide of the item as accessed from **GOI** link (E)
13 shown in Fig. 4.

14 **DETAILED DESCRIPTION OF THE PREFERED EMBODIMENTS**

15 Referring in greater detail to the drawings, a presently preferred form of the
16 apparatus utilizes the integration of computerized Graphic Objects as linked through a
17 Graphic Object Interface (**GOI**) with associated database programs in the total
18 management of any representation of the project being managed. This includes but is not
19 limited to partial or complete finished construction or assembly management for all
20 commercial or personal project applications such as construction trades, automotive
21 assembly, and equipment manufacturing.

22 Graphic Objects are comprised of a graphic representation or partial representation
23 of an object related to the project to be constructed, and may be in a computerized format
24

1 or not. If the information to be used is non-computerized, then it is converted to a
2 graphic form through scanning, digital photography, or movies into one of any
3 commonly used consumer computer graphic formats. Such formats include but are not
4 limited to computer system compatible platforms such JPEG, MPEG, DVD, GIF, BMP,
5 PCX, TIFF, TIFF-M and PNG.

6 Computerized information management program platforms utilized with this
7 invention and interconnected through GOI's, integrate single or multiple consumer or
8 vendor information type programs which contain the data required for installation,
9 maintenance, operation, and repair of part or all of the project being managed. Single or
10 multiple databases are organized into modules containing a single Graphic Object
11 specific to the overall project being managed. The **GOI** may contain more than one
12 module, which constitutes a single graphic object within the graphic interface. The
13 database may be specifically linked through the **GOI** to one or more modules within the
14 project or the entire project. The effect of the connection of the database(s) to a graphic
15 object representation is to create a spider web of interrelated links (**Fig. 1, Fig. 2**) within
16 a single project to allow the project supervisor or owner to effectively manage all aspects
17 of the project from a desktop or laptop computer. Common database programs utilized
18 by consumers or vendors include but are not limited to Adobe Acrobat, Excel
19 Spreadsheet, or any other portable document formats.

20 It is a preferred embodiment of this apparatus that internet web links, diagnostic and
21 repair programs, database maintenance scheduling program, and/or adjusting
22 maintenance programs may also be linked via the **GOI** in the same manner as the
23
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1 database(s) are linked above to a specific graphic object representation by utilizing any
2 computerized network configuration.

3 For illustrative purposes Adobe Acrobat, Microsoft Word and Excel, database
4 management programs are used with TIF graphic object representations that are
5 converted to PDF files. The start of the management program generates a screen with
6 one or more **GOI's**. (**Fig. 3**) Upon accessing one section through the **GOI**, the user
7 selects desired bookmark on left hand side. (**Fig. 4**) The selection of bookmark directs
8 user to the desired module containing the required graphic object representation menu.
9 (**Fig. 5 –Fig. 9**) The graphic object representation for the attached application is the Air
10 handler. By Clicking return to AH-1 Menu, a menu appears. This menu displays the
11 associated **GOI** links positioned on the menu relevant to graphic object that it represents.
12 Here is the explanation of those **GOI** Links (**Fig. 4**).

13 (A)- Link to “Schedule” of events for installation of air handler unit

14 (B)- Link to “Plans” related to the location and placement of air handler unit

15 (C)- Link to “Specifications” data for the air handler unit

16 (D)- Link to “Submittal” of catalogue information on air handler unit

17 (E)- Link to “Operation & Maintenance Manual” data for air handler unit

18 (F)- Link to “Details” containing other related data specific to air handler unit.

19 (G)- Link to “Section” information on the individual components of the air
20 handler unit.

21 (H) Link to Vendor Supplied Diagnostic Program or URL Link for this specific
22 equipment to check setup and functioning of air handler unit.